Ephemerides

SWALLOW.

A NEW

ALMANACK

for the Year of our

LORD GOD

1687.

Being the third after Biſſextile, or Leap-year, and from the Worlds Creation, 5690.

Calculated properly for the famous Univerſity and Town of *Cambridge*, where the Pole Artick is elevated 52 deg. 12 min. above the Horizon.

And may ſerve indifferently for any other place of this Kingdom.

Omnia ſuke metit tempus.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the Univerſity, 1687.

The vulgar Notes and moveable Feasts for this Year 1687. in both Accounts, viz.

Julian or *English.*			*Gregorian* or Forreign.	
	16	Golden Number	16	
	B	Dominical Letter	C	
	26	The Epact	16	
	16	The Cycle of the Sun	16	
Feb.	6	Shrove-Sunday	Febr.	9
March	27	Easter-day	March	30
May	5	Ascension-day	May	8
May	15	Whitsunday	May	18
Novemb.	27	Advent-Sunday	Novemb.	30

The Anatomy of Mans Body.

♈	*Aries* Head and Face	♎	*Libra* Reins and Loyns
♉	*Taurus* Neck & Throat	♏	*Scorpio* Secret members.
♊	*Gemini* Arms and Shoul.	♐	*Sagitarius* the Thighs
♋	*Cancer* Breast & Stom.	♑	*Capricornus* the Knees.
♌	*Leo* Heart and Back	♒	*Aquarius* the Legs
♍	*Virgo* Bowels and Belly	♓	*Pisces* the Feet.

A Table of the Terms with their Returns.

Hilary Term begins January 24, and ends February 12, and hath 4 returns, *viz.*

- Octab. Hilar. Jan. 20
- Quind. Hilar. Jan. 27
- Craft. Purif. Febr. 3
- Octab. Purif. Febr. 9

Easter Term begins April 13, ends May 9, and hath 5 returns, *viz.*

- Quind. Paſch. Apr. 11
- Tres Paſch. Apr. 18
- Menſ. Paſch. Apr. 26
- Quinq. Paſch. May 2
- Craft. Aſcen. May 6

Trinity Term begins May 27, and ends June 15, and hath 4 returns, *viz.*

- Craft. Trin. May 23
- Octab. Trin. May 30
- Quind. Trin. June 6
- Tres Trin. June 13

Michaelmas Term begins October 24, ends November 28, and hath 6 returns, *viz.*

- Tres Mich. Octob. 20
- Menſ. Mich. Octob. 27
- Craft. anim. Nov. 3
- Craft. Mart. Nov. 12
- Octab. Mart. Nov. 18
- Quind. Mart. Nov. 25

Note that the Exchequer openeth 8 days before any Term begins, except the Term of Trinity, in which it openeth but 4 days before.

Note alſo that the bright Planet *Venus*, will be our glorious Morning Star, till the 24 day of *January*, and then making her Conjunction with the Sun, She becomes Occidental, and our glorious Evening Star till the 7 day of *November*, and then again meeting with the Sun, She becomes Oriental, and our bright Morning Star to the end of the year.

January hath xxxi days.

New moon the 3 day, 56 min. past 7 at night.
First quarter the 10 day, 25 min. past noon.
Full moon the 18 day, 28 min. past noon.
Last quarter the 26 day, 29 min. past 1 after noon.

1	a	Circumcision	21	37	Sagit.	18	
2	b	2 after Christ.	22	39	Capr.	3	Fine mild
3	c	Octab. John.	23	40		18	weather be-
4	d	Octab. Innoc.	24	41	Aquar.	4	gins the
5	e	Simeon	25	42		19	month.
6	f	Epiphany	26	43	Pisces	4	
7	g	Julian	27	44		19	
8	a	Lucian	29	46	Aries	3	
9	b	1 aft. Epiph.	0	47		17	
10	c	Sun in Aquar.	1	48	Taur.	0	
11	d	Hyginus	2	49		13	
12	e	Archadius	3	50		25	
13	f	Hilary Bish.	4	51	Gem.	8	Cold now
14	g	Felix	5	52		20	and frosty
15	a	Maurice B.	6	53	Canc.	2	with snow.
16	b	2 aft. Epiph.	7	54		14	
17	c	Anthony	8	55		26	
18	d	Prisca	9	56	Leo	8	
19	e	Wolstan	10	57		20	
20	f	Octab. Hilar.	11	58	Virgo	2	
21	g	Agnes	12	59		14	
22	a	Vincent	13	0		26	
23	b	Septuagesima	14	1	Libra	8	Cold weather
24	c	Term begins.	15	2		20	with rain to-
25	d	Conv. S. Paul	16	3	Scorp.	3	wards the
26	e	Polycarpus	17	3		16	end.
27	f	Quind. Hilar.	18	4		29	
28	g	Valerius	19	5	Sagit.	13	
29	a	Theodoze	20	6		27	
30	b	K. Ch. I. mart.	21	6	Capr.	12	Sexagesima
31	c	Saturnine	22	7		27	

February hath xxviii days.

New moon the 2 day, 14 min. past 6 in the morn.
First quarter the 9 day, 39 min. past midnight.
Full moon the 17 day, 27 min. past 7 in the morning.
Last quarter the 25 day, at 2 in the morning.

M.D	W.D	Festival days with terms.	☉ place d.	m.	Moons place.		Inclination of the Air.
1	d	Bridget fast	23	8	Aquar.	12	
2	e	Purification	24	8		27	Frosty cold
3	f	Crast. Purif.	25	9	Pisces	12	weather with
4	g	Veronica	26	10		27	snow.
5	a	Agatha	27	10	Aries	12	
6	B	Shrove Sund.	28	11		26	K. James's day
7	c	Zachary	29	11	Taur.	9	
8	d	Shrovetuesd.	0 ♓	12		22	
9	e	Ash wednesd.	1	12	Gem.	5	
10	f	Scholastica	2	13		17	Very season-
11	g	Euphrosina	3	13		29	able weather
12	a	Term ends	4	14	Canc.	11	for the time
13	B	1 Sun. in Lent.	5	14		23	of the year.
14	c	Valentine	6	14	Leo	5	
15	d	Faustine	7	14		17	
16	e	Ember week	8	15		29	
17	f	Polycron	9	15	Virgo	11	A gloomy and
18	g	Concordia	10	15		23	thick air, and
19	a	Sabine	11	15	Libra	5	windy bring-
20	B	2 sun. in Lent	12	15		18	ing rain, but
21	c	70 Martyrs	13	15	Scorp.	0	warm for the
22	d	Juliana	14	15		13	season.
23	e	Serenus fast	15	15		26	
24	f	S. Matthias	16	15	Sagit.	9	
25	g	Constance	17	15		22	
26	a	Nestor	18	15	Capr.	6	
27	B	3 sun. in Lent	19	15		21	
28	c	Oswald	20	14	Aquar.	5	

March hath xxxi days.

New moon the 3 day, 4 min. past 4 after noon.
First quarter the 10 day, 50 min. past 8 at night.
Full moon the 19 day, 18 min. past midnight.
Last quarter the 26 day, 48 m. past 10 before noon.

1	d	David Bish.	21	14	Aquar.	20		
2	e	Chad Bish.	22	14	Pisc.	6	Windy but	
3	f	Lucius	23	14		21	not very cold	
4	g	Adrian	24	13	Aries	5	for the sea-	
5	a	Eusebius	25	13		20	son.	
6	b	Midlent Sund.	26	12	Taur.	4		
7	c	Perpetua	27	12		18	About this	
8	d	Cyprian	28	12	Gem.	1	time expect	
9	e	40 Martyrs	29	11		13	much rain	
10	f	Sun in Aries	0 ♈	11		26	but warm.	
11	g	Cuthbert	1	10	Canc.	8		
12	a	Gregory	2	9		20		
13	b	☽ Sun. in Lent	3	9	Leo	2		
14	c	Candide	4	8		14		
15	d	Longinus	5	7		25	Cold now	
16	e	Boniface B.	6	7	Virgo	7	and cloudy.	
17	f	Patrick	7	6		20		
18	g	Edward	8	5	Libr.	2		
19	a	Joseph	9	4		14		
20	b	Palm Sunday	10	3		27	High winds	
21	c	Benedict	11	2	Scorp.	10	and inclining	
22	d	Paulinus	12	1		22	to driness	
23	e	Godfridus	13	0	Sagit.	6	toward the	
24	f	Quirine fast	13	59		19	end.	
25	g	Annunciation	14	58	Capr.	3		
26	a	Castulus	15	57		17		
27	b	Easter day	16	56	Aquar.	1		
28	c	Dorothy	17	55		15		
29	d	Eustachius	18	54	Pisces	0		
30	e	Guido	19	53		14		
31	f	Balbina	20	52		29		

April hath xxx days.

New moon the 2 day, 9 min. past 2 in the morn.
First quarter the 9 day, 26 min. past 2 afternoon.
Full moon the 17 day, 19 min. past 2 afternoon.
Last quarter the 24 day, 4 min. past 4 afternoon.

1	F	Conv. S. P.	21	50	Aries	14	
2	a	Mary Egypt	22	48		28	
3	b	Low Sunday	23	47	Taur.	12	Very uncon-
4	c	Ambrose	24	45		25	stant weather
5	d	Vincent	25	44	Gem.	9	but indiffe-
6	e	Sixtus Bish.	26	42		21	rently good
7	f	Egisippus	27	41	Canc.	4	for the sea-
8	g	Perpetuus	28	39		16	son.
9	a	Albinus	29	38		28	
10	b	2 after Easter	0	36	Leo	10	
11	c	Quind. Pasc.	1	34		22	
12	d	Julius	2	33	Virgo	4	Fine warm
13	e	Term begins	3	31		16	showers
14	f	Valerian	4	29		28	about this
15	g	Leonard	5	27	Libra	10	time.
16	a	Ildoze	6	25		22	
17	b	3 after Easter	7	24	Scorp.	6	
18	c	Tres Pasch.	8	22		19	
19	d	Timothy	9	20	Sagit.	2	Windy and
20	e	Sulpitius	10	18		16	dry toward
21	f	Simeon	11	16	Capr.	0	the end with
22	g	Sother	12	14		13	thunder.
23	a	S. GEORGE	13	12		27	
24	b	4 after Easter	14	10	Aquar.	12	
25	c	S. Mark	15	7		26	
26	d	Mens. Pasch.	16	5	Pisces	10	
27	e	Anastasius	17	3		24	
28	f	Vitalis	18	1	Aries	8	
29	g	Peter Mart.	18	59		23	
30	a	Erkenwald	19	57	Taur.	6	

May hath xxxi days.

New moon the 1 day, 41 min. past noon.
First quarter the 9 day, 56 min. past 7 in the morn.
Full moon the 17 day, 5 min. past 2 in the morning.
Last quarter the 23 day, 13 min. past 8 at night.
New moon the 31 day, 25 min. past midnight.

1	♋	Rogation Sun.	20	54	Taur.	20	Phil. & James	
2	c	Athanasius	21	52	Gem.	4		
3	d	*Invent. Crucis*	22	50		17	Fine clear	
4	e	Ambrose	23	47		29	weather be-	
5	f	Ascension day	24	45	Canc.	12	gins the	
6	g	Joh. port. L.	25	42		24	month.	
7	a	Joh. of *Bev.*	26	40	Leo	6		
8	♋	Sun. aft. ascen.	27	38		18		
9	c	Term ends	28	35	Virgo	0		
10	d	Gordian	29	33		11		
11	e	Sun in Gem.	☌	30		24		
12	f	Pancrat.	1	28	Libra	6		
13	g	Boniface	2	25		18	Cold with	
14	a	Isidore fast	3	22	Scorp.	1	rain.	
15	♋	Whit-sunday	4	20		14		
16	c	Tr. Bernard	5	17		28		
17	d	Jodocus	6	15	Sagit.	11		
18	e	Ember week	7	12		25		
19	f	Dunstan	8	9	Capr.	10		
20	g	Helen Q.	9	7		24	Fine season-	
21	a	Julian. Virg.	10	4	Aquar.	8	able weather	
22	♋	Trinity Sunday	11	1		22	with brisk	
23	c	Craft. Trin.	12	58	Pisces	7	gales of	
24	d	Esther	13	56		21	wind and	
25	e	Urban	14	53	Aries	5	towards the	
26	f	*Corpus Christi*	15	50		18	end thunder.	
27	g	Term begins	16	47	Taur.	2		
28	a	Monica	16	45		16		
29	♋	K. Ch. 2. Ret.	17	42		29		
30	c	Octab. Trin.	18	39	Gem.	12		
31	d	Petronel.	19	36		25		

June hath xxx days.

First quarter the 8 day, 57 min. past 12 in the morn.
Full moon the 15 day, 31 min. past 10 beforenoon.
Last quarter the 22 day, 53 min. past midnight.
New moon the 29 day, 30 min. past 1 after noon.

1	f	Nicomede	20	33	Canc.	7		
2	f	Marcellus	21	30		20		
3	g	Erasmus	22	28	Leo	2		
4	a	Petroc. Con.	23	25		14	Indifferently	
5	b	2 sun.af. Trin.	24	22		26	hot for the	
6	c	Quind. Trin.	25	19	Virg.	8	season.	
7	d	Paul Ep.	26	16		20		
8	e	Medard	27	13	Libra	2		
9	f	Pelagia	28	10		14		
10	g	Margaret	29	7		26		
11	a	S. Barnabas	0	☌ 4	Scorp.	9	High winds	
12	b	3 after Trin.	1	1		22	with storms	
13	c	Tres Trin.	1	59	Sagit.	6	of hail.	
14	d	Valerius	2	56		20		
15	e	Term ends	3	53	Capr.	4		
16	f	Rowland	4	50		19		
17	g	Botolph	5	47	Aquar.	4		
18	a	Gervasius	6	44		18		
19	b	4 after Trin.	7	41	Pisces	3		
20	c	Tr. S. Edw.	8	38		17	Windy and	
21	d	Alban	9	35	Aries	1	showery	
22	e	Achatius	10	32		15	Weather, and	
23	f	Audrey fast	11	29		29	moderate as	
24	g	S. John Bapt.	12	26	Taur.	♉	to heat.	
25	a	Tran. Eligii	13	23		25		
26	b	5 sun.af. Trin.	14	20	Gem.	8		
27	c	7 Sleepers	15	17		21		
28	d	Leo Bish. fast	16	14	Canc.	3		
29	e	S. Peter Apo.	17	11		16		
30	f	Com. S. Paul	18	9		28		

July hath xxxi days.

First quarter the 7 day, 52 min. past 4 afternoon.
Full moon the 14 day, 25 min. past 6 afternoon.
Last quarter the 21 day, 13 min. past 8 beforenoon.
New moon the 29 day, 5 min. past 4 in the morn.

1	♃	Theobald	19	6	Leo	10	
2	a	Visit. Mary	20	3		22	
3	b	6 after Trin.	21	0	Virgo	4	Gloomy close
4	c	Ulricus	21	57		16	weather, and
5	d	Anselme	22	54		28	hot.
6	e	Hetor	23	51	Libra	10	
7	f	Demetrius	24	48		22	
8	g	Thilian	25	46	Scorp.	4	
9	a	Cyrillus	26	43		17	
10	b	7 after Trin.	27	40	Sagit.	⊙	
11	c	Pius	28	37		14	
12	d	Henricus	29	34		28	Hot weather
13	e	Sun in Leo	⊙ Ω	32	Capr.	13	with thunder,
14	f	Bonavent.	1	29		27	and storms of
15	g	Swithin	2	26	Aquar.	13	hail.
16	a	Hilarine	3	23		2	
17	b	8 after Trin.	4	21	Pisces	13	
18	c	Rosina	5	18		27	
19	d	Dog days beg	6	15	Aries	12	
20	e	Elias.	7	13		26	
21	f	Daniel	8	10	Taur.	9	
22	g	Mary Mag.	9	7		22	Very hot
23	a	Apolline B.	10	5	Gem.	5	towards the
24	b	9 after Trin	11	2		18	end with
25	c	S. James Apo.	12	0	Canc.	0	thunder.
26	d	Anna	12	57		13	
27	e	Martha	13	54		25	
28	f	Pantheleon	14	52	Leo	7	
29	g	Beatrix	15	49		19	
30	a	Abdon	16	47	Virg.	1	
31	b	10 after Trin.	17	44		13	

August hath xxxi days.

First quarter the 6 day, 39 min. past 6 in the morn.
Full moon the 13 day, 12 min. past 3 in the morn.
Last quarter the 19 day, 57 min. past 7 at night.
New moon the 27 day, at 8 at night.

1	c	*Lammas day*	18	42	Virgo	25		
2	d	Stephanus	19	40	Libra	6		
3	e	Dominick	20	37		18		
4	f	Arsatachus	21	35	Scorp.	1	Very hasty	
5	g	Oswald	22	33		13	showers and	
6	a	Transf. Christi	23	30		26	hot.	
7	b	11 after Trin.	24	28	Sagit.	9		
8	c	Cyriacus	25	26		22		
9	d	Romanus	26	23	Capr.	6		
10	e	S. Laurence	27	21		21	Good season-	
11	f	Tiburtius	28	19	Aquar.	6	able weather	
12	g	Clare Virg.	29	17		21	about this	
13	a	Sun in Virgo	0	♍ 15	Pisces	6	time.	
14	b	12 after Trin.	1	13		22		
15	c	Assumpt. Mary	2	11	Aries	6		
16	d	Roch	3	9		21		
17	e	Mammes	4	7	Taur.	5		
18	f	Helena Emp.	5	5		19		
19	g	Sebaldus	6	3	Gem.	2	Hot and	
20	a	Bernard	7	1		15	moist and	
21	b	13 after Trin.	7	59		27	turbulent	
22	c	Symphyo	8	57	Canc.	10	weather, and	
23	d	Zacheus fast	9	55		22	black clouds	
24	e	S. Bartholom.	10	54	Leo	4	with thunder.	
25	f	Lewis King	11	52		16		
26	g	Irenens	12	50		28		
27	a	Dog days end	13	48	Virgo	10		
28	b	14 after Trin.	14	47		22		
29	c	Decol. J. Bapt.	15	45	Libra	3		
30	d	Felix	16	44		15		
31	e	Paulinus	17	42		28		

September hath xxx days.

First quarter the 4 day, 3 min. past 6 at night.
Full moon the 11 day, 31 min. past 9 beforenoon.
Last quarter the 18 day, 17 min. past 9 beforenoon.
New moon the 26 day, 30 min. past noon.

1	f	Giles Abbot	18	41	Scorp.	10	
2	g	Veronica	19	39		22	
3	a	Gregory	20	38	Sagit.	5	High winds
4	b	15 after Trin.	21	36		18	at the begin-
5	c	Bertine	22	35	Capr.	1	ning, but
6	d	Magnus	23	33		15	warm.
7	e	Regina	24	32	Aquar.	0	
8	f	Nat. of Mary	25	31		14	
9	g	Gorgon	26	30		29	
10	a	Hosthenes	27	28	Pisces	15	Very boiste-
11	b	16 after Trin.	28	27		29	rous weather
12	c	Tobias	29	♎ 26	Aries	15	with rain.
13	d	Sun in Libra	0	25		29	
14	e	Holy Cross	1	24	Taur.	14	
15	f	Nicodemus	2	23		28	
16	g	Euphemus	3	22	Gem.	10	
17	a	Lambert	4	21		24	
18	b	17 after Trin.	5	20	Canc.	6	Much rain
19	c	Januarius	6	19		19	now may be
20	d	Fausta	7	18	Leo	1	expected, and
21	e	S. Matthew	8	18	Emb. week		a very turbu-
22	f	Maurice	9	17		25	lent season
23	g	Edzas	10	16	Virgo	6	and cold.
24	a	Rupert	11	15		18	
25	b	18 aft. Trin.	12	15	Libra	0	
26	c	Cyprian	13	14		12	
27	d	Judith	14	14		24	
28	e	Wenceslaus	15	13	Scorp.	7	
29	f	S. Michael	16	13		19	
30	g	Jerome	17	12	Sagit.	2	

October hath xxxi days.

First quarter the 4 day, 11 min. past 2 in the morn.
Full moon the 10 day, 50 min. past 6 at night.
Last quarter the 18 day, 54 min. past 2 in the morn.
New moon the 26 day, at 6 in the morning.

1	a	Remigius	18	11	Sagit.	15		
2	b	19 after Trin.	19	11		28		
3	c	Candide	20	11	Capr.	12		
4	d	Francis	21	11		25	Cloudy dark	
5	e	Apolinarii	21	10	Aquar.	9	weather and	
6	f	Faith	22	10		24	something	
7	g	Aurelia	24	10	Piſces	8	cold.	
8	a	Pelagia	25	10		23		
9	b	20 after Trin.	26	9	Aries	8		
10	c	Gideon	27	9		23		
11	d	Burchard	28	9	Taur.	8	Very uncer-	
12	e	Wilfride V.	29	9		22	tain weather,	
13	f	Sun in Scorpio	0 m	9	Gem.	6	but inclining	
14	g	K. John. a. Bor.	1	9		19	to moiſture.	
15	a	Hedwig.	2	9	Canc.	2		
16	b	21 after Trin.	3	9		15		
17	c	Florent.	4	9		27		
18	d	S. Luke Evan.	5	10	Leo	9		
19	e	Ptolemy	6	10		21		
20	f	Tres Mich.	7	10	Virgo	3	Tempeſtuous	
21	g	Ursula	8	10		15	and cold with	
22	a	Cordula	9	10		27	ſhowers of	
23	b	22 after Trin.	10	11	Libra	9	rain.	
24	c	Salome	11	11		21		
25	d	Crispine	12	11	Scorp.	3		
26	e	Amandus	13	12		16		
27	f	Menſ.mich.fa.	14	12		29		
28	g	Sim. & Jude	15	13	Sagit.	12		
29	a	Narciſſus	16	13		25		
30	b	23 after Trin.	17	14	Capr.	8		
31	c	Wolfgang	18	14		22		

November hath xxx days.

First quarter the 2 day, 23 min. past noon.
Full moon the 9 day, 27 min. past 6 in the morn.
Last quarter the 16 day, 57 min. past 10 at night.
New moon the 24 day, 39 min. past 8 at night.

1	D	All Saints	19	14	Aquar.	6	
2	E	All Souls	20	15		20	
3	F	Craft Anim.	21	15	Piſces	4	High winds
4	G	Modeſtus	22	16		18	with cold
5	A	Powder Plot	23	17	Aries	3	rain or ſnow.
6	B	24 after Trin	24	18		17	
7	C	Willibald	25	19	Taur.	2	
8	D	Claudius	26	20		16	
9	E	Theodozus	27	21	Gem.	0	
10	F	Eraſtus	28	21		14	
11	G	Martine	29	22		27	Cold gloomy
12	A	Craft. Mart.	0 ♑	23	Canc.	10	dark weather
13	B	25 after Trin.	1	24		23	with froſt.
14	C	Erkenwald	2	25	Leo	5	
15	D	Leopold	3	26		17	
16	E	Edmond	4	27		29	
17	F	Amanus	5	28	Vi go	11	
18	G	Octab. Mart.	6	29		23	
19	A	Elizabeth	7	30	Libra	5	
20	B	26 after Trin.	8	31		17	
21	C	Oblat. Mary	9	32		29	Fine weather
22	D	Cicily Virg.	10	33	Scorp.	11	for the ſeaſon
23	E	Clement	11	34		24	and not very
24	F	Chryſogon.	12	35	Sagit.	7	cold.
25	G	Quind. Mart.	13	36		21	
26	A	Conrade	14	37	Capr.	5	
27	B	Advent Sund.	15	38		19	
28	C	Term ends	16	40	Aquar.	3	
29	D	Saturnine f.	17	41		17	
30	E	S. Andrew	18	42	Piſces	1	

First quarter the 2 day, at noon.
Full moon the 8 day, 32 min. past 8 at night.
Last quarter the 16 day, 6 min. past 8 at night.
New moon the 24 day, 31 min. past 10 at night.

1	f	Longinus	19	43	Piſces	15	
2	g	Libane	20	44		29	
3	a	Caſſian	21	46	Aries	13	Mild weather
4	b	2 ſun. in Adv.	22	47		27	for the ſeaſon
5	c	Sabine	23	48	Taur.	11	and ſo con-
6	d	Nicholas	24	49		25	tinues for
7	e	Agathon	25	50	Gem.	8	ſome time.
8	f	Concep. Mary	26	52		22	
9	g	Joachim	27	53	Canc.	5	
10	a	Miltiades	28	54		18	
11	b	3 ſun. in Adv.	29	56	Leo	0	
12	c	Valerius	☉ ♑	57		13	
13	d	Lucia Virg.	1	58		25	
14	e	Ember week	2	59	Virgo	7	Windy with
15	f	Abraham	4	1		19	froſt & ſnow,
16	g	O Sapientia	5	2	Libra	1	but the
17	a	Lazarus	6	3		13	month is
18	b	4 ſun. in Adv.	7	5		25	generally
19	c	Nemeſius	8	6	Scorp.	7	mild to the
20	d	Amon faſt	9	7		19	end thereof.
21	e	S. Thomas	10	8	Sagit.	2	
22	f	Iſchirion	11	10		16	
23	g	Ninus Virg.	12	11		29	
24	a	Ad. & Ev. faſt	13	12	Capr.	13	
25	b	Nat. Chriſti	14	14		28	
26	c	S. Stephen	15	15	Aquar.	12	
27	d	S. John Evan.	16	16		27	
28	e	H. Innocents	17	17	Piſces	12	
29	f	Treſcens	18	19		26	
30	g	David	19	20	Aries	10	
31	a	Sylveſter	20	21		24	

A Regal Table in a more exact manner.

The Year, Moneth, and Day, (accounting the Year to begin *Jan.* 1.) whereon every K. and Q. of *Eng.* since the Conq. began their reign.				The number of Years, Moneths, & Days, that every K. & Q. reign. 28 da. to a mon.							The num. of y. expired in this y. since they began to reign 1 as also since they ended.	
K. W. Conq.		1066	Octob. 14	20	y	11	m	22	d	621		
W. Rufus		1087	Sept. 9	12	y	11	m	18	d	600	W Conq.	
Henry	1	1100	Auguſt 1	35	y	4	m	11	d	587	W. Rufus	
Stephen		1135	Decem. 2	18	y	11	m	18	d	552	Henry	1
Henry	2	1154	Octob. 25	34	y	9	m	2	d	533	Stephen	
Richard	1	1189	July 6	9	y	9	m	0	d	498	Henry	2
John		1199	April 6	17	y	7	m	0	d	488	Richard	1
Henry	3	1216	Octob. 19	56	y	1	m	0	d	471	John	
Edward	1	1272	Nov. 16	34	y	8	m	6	d	415	Henry	3
Edward	2	1307	July 7	19	y	7	m	5	d	380	Edward	1
Edward	3	1327	Jan. 25	50	y	5	m	7	d	360	Edward	2
Richard	2	1377	June 21	22	y	3	m	14	d	310	Edward	3
Henry	4	1399	Sept. 29	13	y	6	m	3	d	288	Richard	2
Henry	5	1413	Marc. 20	9	y	5	m	24	d	274	Henry	4
Henry	6	1422	Aug. 31	38	y	6	m	16	d	265	Henry	5
Edward	4	1461	March 4	22	y	1	m	8	d	226	Henry	6
Edward	5	1483	April 9	0	y	2	m	18	d	204	Edward	4
Richard	3	1483	June 22	2	y	2	m	5	d	204	Edward	5
Henry	7	1485	Aug. 22	23	y	10	m	24	d	202	Richard	3
Henry	8	1509	April 22	37	y	10	m	2	d	178	Henry	7
Edward	6	1547	Jan. 28	6	y	5	m	19	d	140	Henry	8
Q. Mary		1553	July 6	5	y	4	m	22	d	134	Edward	6
Q. Elizab.		1558	Nov. 17	44	y	4	m	15	d	129	Q. Mary	
James	1	1603	Mar. 24	22	y	0	m	3	d	84	Q. Elizab.	
Charles	1	1625	Mar. 27	22	y	10	m	3	d	62	K. James	1
Charles	2	1648	Jan. 30	36	y	0	m	7	d	38	K. Charles	1
James	2	1685	Febr. 6	Long live the King						2	K. Charles	2

The uſe of the Table in Example.

King *Henry* 8 began his Reign in the year of *Chriſt* 1509, *April* 22 He Reigned 37 years, 10 months, and 2 days. It is ſince he began his Reign 178 years compleat the 22 of *April* this year 1687. Now to know the time ſince the end of his Reign, before his name ſtanding on the right hand, you ſhall there find 140 years ſince he died, *Jan.* 28. And ſo of the reſt.

SWALL.

SWALLOW.

The latter part of this

ALMANACK

for the Year of our

LORD GOD

1687.

Being the 3d after Bissextile or Leap-year, and from the Conquest of *England* by *William* Duke of *Normandy* 621 years.

Wherein is contained an account of the Eclipses, the time of the Sun's entrance into the four Cardinal Signs, A most natural and rational account of *Astrology*; and likewise Tables of Weights and Measures, A Table of Timber measure, with Rules for measuring Boards and Timber, and Tables for Purchasing explained, with other profitable and delightfull things.

Poma dat Autumnus: formosa est messibus Æstas: Ver præbet flores: Igne levatur Hyems.

CAMBRIDGE,
Printed by *John Hayes*, Printer to the University, 1687.

Of the Eclipses this Year.

IN this year, there will be but two Eclipses, and both of the Sun, the one of them happens before the Sun's Apogæon, and the other after it, and both of them almost Central.

The first Eclipse will be on the 1 day of *May*, a little after noon, it happens in 21 degrees of *Taurus*, among the *Pleiades*, a turbulent Constellation: it will be a great Eclipse, and visible, being within a degree of the North Node.

The second Eclipse will be on the 26th day of *October*, at about 6 of the Clock in the morning: it happens in 13 degrees of *Scorpio*, near the Stars of the *Ballance*: it will be a great Eclipse also, but not visible to us, it being almost over before the Sun appears above our Horizon. It falls very near the Moons South Node, and therefore the more remarkable both for its Magnitude and Effects.

These Eclipses, according to Astrology, have most signification upon great Cattel; shewing that there shall be a mortality among them, *viz.* among Horses, Cows, Oxen, and that *Russia*, *Polonia*, *Swedeland*, *Lorrain*, *Helvetia*, and *Ireland*, shall be the places most concerned.

The

The Suns entrance into the four Cardinal Signs this Year.

HE enters ♈, *March* the 10th day, 32 min. past 7 beforenoon, and then begins our Spring Quarter.

He enters ♋, *June* the 11th day, 19 minutes past 10 in the morning, and then begins our Summer Quarter.

He enters ♎, *September* the 13th day, 50 minutes past 1 in the morning, and then begins Autumn.

He enters ♑, *December* the 11th day, 57 min. past 1 afternoon, and then begins our Winter Quarter.

Although the approach, and abscence of the Sun may seem to be the sole cause of Summer and Winter, &c. yet nevertheless there is something to be attributed to the quality of the Signs, or parts of the Heavens that the Sun is in; for it appears to Travellers, that the Sun in the same Signs causeth like effects to them beyond the Æquinoctial, that at the same he produceth here to us, the faireſt or the fouleſt weather happening to both at the same instant: for the air is most clear, and without rain under the burning Zone, when the Sun is fartheſt off, and contrariwiſe, there is moſt rain ſnow and miſts, when the Sun is neareſt, as in *Peru* the Sun approaching near the Tropick of *Capricorn*, then begins it to rain and ſnow, and their Rivers ſwell from *October* to *December*; then after that, the Sun retiring from ♑, whenas his beams reflect directly upon the heads of them at *Peru*, then is the violence of their Waters great, then is the time of rain, ſnow, &c. which may ſatisfie the moſt obſtinate, that in all Places, the ſame parts of Heaven keep ſtill the ſame Qualities.

A moſt natural and rational account of Aſtrology.

Aſtrology (as it is defined by ſome) is the language or influence of the Stars, by whoſe motions and various configurations is manifeſted and foreſeen the intents of Gods Providence in the ſeveral mutations that happen in the World in general, and more particularly towards Man.

The ſubjects of Aſtrology are the four principle Qualities, (as they are derived and do proceed from the firſt principles of the univerſe) *viz.* Heat, Cold, Drought, and Moiſture, and all things that are compounded of them.

The uſe and end of Aſtrology, is to diſcover and make manifeſt the cauſes of thoſe mutations and accidents that happen in general, as Dearth, Plenty, *&c.*

The parts of Aſtrology are chiefly two, *viz.* Theorick and Practick;

The Theorick part (which is more properly called Aſtronomy) is that which by certain Mathematical Demonſtrations and Figures, repreſents to us the various Motions, Places, Magnitudes, Diſtances, and Proportions one to another, with all other Phœnonena, or appearance of the Stars.

The Practick part, is that which from the knowledge of the aforeſaid Motions, Configurations, *&c.* of the Stars, judgeth of their Effects; and this is that which moſtproperly of it ſelf is called Aſtrology, or the Influence of the Stars.

Neither can it be void of a third diviſion, and that is Phyſical, by which is demonſtrated their occult Virtues and Natures, and by what means they come to have ſuch various Motions, Diſtances, Paſſions, *&c.* from whence ſuch variety of Effects do proceed, as alſo hereby is ſhewed by what means they differ in quality among

among themſelves, by which means they produce moſt forcible Effects upon ſome particular Objects.

Of the Stars ſome are termed Fixed, and ſome Wandering or Planets.

The Fixed Stars are thoſe that are placed in their ſeveral Conſtellations or Aſteriſms, having equal diſtances, at all times one from another: their Latitude being always the ſame, and by the Anticipation of the Æquinoxes, ſeem to have onely a ſlow motion in Longitude, *viz.* 50 ſeconds in a Year, which is only 1 degree 23′ 20″ in 100 Years.

A Conſtellation is a certain number of Fixed Stars collected into a certain form, either for that the Stars in thoſe places are of the nature of that Creature in the form of which they are placed, or becauſe they only make the form of ſuch a Creature.

Of theſe Conſtellations there are three diviſions, *viz.* Zodiacal, Northern, and Southern Conſtellations.

The moſt principal are thoſe which are termed Zodiacal, becauſe they are placed upon that great Circle of the Sphære ſo called.

And theſe are called Signs becauſe from them is meaſured in Longitude the places of all the Stars, whether Fixed or Wandring, hence any Star is ſaid to be in ſuch a degree, *&c.* of ſuch a Sign.

The Northern and Southern Conſtellations are ſo termed, becauſe they are placed either North or South of thoſe in the Zodiack, and the further North or South they decline or are placed from this Circle, they are of the leſs conſideration in Aſtrological Judgements.

And as the difference is in the ſeveral Conſtellations themſelves, ſo is it likewiſe in the fixed Stars therein placed, and this difference ariſeth either in reſpect of Magnitude or Place.

In reſpect of Magnitude, the Antients have diſtinguiſhed them into Six, *viz.* Stars of the firſt Magnitude,

ſecond magnitude, third magnitude, fourth magnitude, fifth magnitude, ſixth magnitude.

In reſpect of Place, thoſe that are placed in the Zodiack, and neareſt to the middle thereof (which is a Line called, *Via Solis*, and the Ecliptick) are of Chiefeſt Signification, yet not rejecting ſuch as are vertical in poſition, in reſpect of time and place.

The Wandring Stars are thoſe commonly termed Planets *ab errando*, from wandring to and fro in their ſeveral Spheres in which they were placed at their creation.

They are ſaid to be wandring in reſpect of their motion, either in Longitude or Latitude; in Longitude ſometimes they ſeem (to us) to move direct or forward, ſometimes Retrograde or backward, ſometimes Stationary or move not at all, ſometimes they are ſwifter in motion, ſometimes ſlower, according to their diſtance from the Earth. They are ſaid likewiſe to wander in reſpect of Latitude, for ſometimes they are more northward of the Ecliptick, ſometimes more ſouthward, and ſometimes they are juſt in the Ecliptick, and ſo have no Latitude at all.

And as this difference of motion is proper to all the Planets in general, ſo likewiſe they vary in proportion one to another, for ſome of them are of ſlower motion, ſome of more ſwift according to their diſtance from their Centers, and the Circumference of their Spheres in which they move.

The Signs are ſo many Conſtellations placed upon a great Circle of the Sphere, which for diſtinction ſake do take denomina ion of ſuch Creatures, as they repreſent in Form or Nature.

They are in number 12, each containing 30 degrees in Longitude, the whole Circle containing 360 degrees, but in this reſpect they are to be conſidered two ways, *viz.* either in reſpect of their diviſion upon the Ecliptick, or in their proper Conſtellations.

They

They are reckoned in the Ecliptick from the Vernal Equinoctial or beginning of *Aries*, which is a point to which when a Planet comes he hath an Equal Arch of Day and Night, and when the Sun or Earth comes to that point, Days and Nights are of equal length, but the Conſtellations as they have a different beginning, ſo they have a various and unequal diviſion, ſo that the firſt Zodiacal Conſtellation in this Age, begins about the 28 degree of the firſt Sign, *viz.* ♈, and ſo they annually make their progreſſion as aforeſaid, *viz.* 1 deg. and 23′ in 100 Years.

The 12 Signs are appropriated to the 12 Months of the Year, for that the Sun every Month paſſeth through one Sign, *viz.* 30 degrees, and ſuch a Month is called a Solar Month, and thus are they divided alſo into four parts, anſwering to the four Quarters of the Year, and the four diviſions of Man's Age.

♈, ♉, ♊, are appropriated to the Spring Quarter, beginning at ♈ the firſt Sign, and in this our age attributed to the firſt Month of the Year, *viz.* *March*, and ſo the other two Signs to the other two Months of *April* and *May*; as to Man's Age, this firſt diviſion both of Signs and Quarters is attributed to, and hath conſignification with our Youth.

♋, ♌, ♍, are appropriated to the Summer Quarter, *viz.* *June*, *July*, and *Auguſt*, and in Man's Age to manhood.

♎, ♏, ♐, are appropriated to the Autumnal Quarter, *viz.* the Months of *September*, *October*, *November*; and to the declining age of Man.

♑, ♒, ♓, are appropriated to the Winter Quarter, and the Months of *December*, *January*, and *February*, and to the old and laſt Age of Man.

The Signs are alſo divided into four Triplicities, anſwering to the four Qualities, and the ſeveral Temperatures, Humours, and Complexions in Man.

♈, ♌, ♐, are of the Fiery Trigon; hot, dry, and Chollerick.

♉, ♍, ♑, are of the Earthy Trigon, cold, dry, and Melancholly.

♊, ♎, ♒, are of the Airy Trigon; hot, moist, and Sanguine.

♋, ♏, ♓, are of the Watry Trigon; cold and moist, and do represent the Phlegmatick Humour or Complexion.

They are again divided into Moveable, Fixed, and Common.

Moveable, are ♈, ♎, ♋, ♑, so called, because they signifie more sudden alteration, and are more manifest in operation: hence it is that the Sun entring into these Signs doth divide the four Seasons of the Year as aforesaid, and suddenly manifest the change of the Air, &c. according to the season; and so in other operations of the other Planets, for which cause these Signs are most properly called the most efficacious and principle Signs or parts of the Circle.

Fixed Signs are ♉, ♍, ♌, ♒, so termed, because what is signified in and by them is more durable and fixed, and the season inclines more to its own property generally, they are less principle as being succedent to the former.

Common Signs are ♊, ♐, ♍, ♓, which are cadent from the Equinoctial and Tropical Signs; and Consequently of least signification: they are termed Common, for that they partake of the nature of the precedent and subsequent Signs, they signifie many relapses and sudden and contrary mutations, &c.

The Signs are also divided into Humane and Bestial.

Humane Signs are ♊, ♎, ♍, ♒, and the first part of ♐, which as they represent Humane Creatures, so have they most signification upon all Humane Actions, and in particular upon Man.

Bestial

Beſtial Signs are ♈, ♉, ♌, ♑, and laſt part of ♐, as having ſignification on ſuch Creatures as they repreſent in particular, ♋ and ♓ repreſent and have moſt ſignification on the Waters, and ſuch things as are contained in them, as Fiſh, Navigable Affairs, *&c.* ♏ repreſents Serpents and Creeping Things, Locuſts, all manner of treachery and fraud, *&c.*

The Signs are likewiſe ſaid to have reſpect to the ſeveral quarters or parts of the World, either in regard of their declination, or by a certain congruence one to the other:

By their declination they are accounted Septentrional or Northern, as ♈, ♉, ♊, ♋, ♌, ♏, are ſo accounted, becauſe their declination is north from the Equinoctial: or Meridional or Southern, as ♎, ♍, ♐, ♑, ♒, ♓, which decline ſouthward.

In regard of their Congruity one with another, ♈, ♌, ♐, are ſaid to reſpect the Oriental Parts, becauſe ♈ having no declination from the Equinox at the beginning doth chiefly reſpect the Eaſt, and ♌ and ♐ being Signs of the ſame Triplicity, are attributed to the ſame Quarter, though one have great north declination, and the other ſouth. So likewiſe ♉ denotes ſuch parts as lie ſouth, becauſe of the ſame Trigon with ♑ whoſe Tropical Point is the angle of greateſt declination ſouthward, yet the declination of ♉ is north, and in that reſpect called otherwiſe a northern Sign, and ſo much for the Signs.

The Planets (as was before noted) or wandering Stars are different from thoſe termed Fixed, not onely in motion, but alſo in regard of their Eſſential Qualities; for the Fixed Stars are nearer the Matter of the Sun, whoſe Light alſo is Eſſentially in, and inherent to themſelves, as the Light of the Sun is, and as the Fixed Stars are in Subſtance and Quality ſimilar and analogical to the Sun, ſo are the Planets or wandring Stars to our Earth, which ſhine by that Light which

they

they borrow from the Sun who is the Center both of their Light and Motion, differing no more from the Quality of our Earth, than the Metalls of the ſaid Earth, differ one from another.

The Number of the Planets are generally accounted ſeven, *viz.* *Saturn* ♄, *Jupiter* ♃, *Mars* ♂, *Sol* ☉, *Venus* ♀, *Mercury* ☿, *Luna* ☽.

Theſe Planets have more powerfull Influence upon the Earth, and thoſe things produced from, and contained in it, than the Fixed Stars, as well for this Reaſon, *viz.* that they Sympathize in Nature with her, as in reſpect of their propinquity to the Earth, which is the general and common Reaſon given for their more manifeſt Power and Operation, for although the Fixed Stars are of a vaſt and incomprehenſible diſtance, inſomuch as they are void of all ſenſible parallax, yet in regard of their excels in magnitude to that of the Planets (as by their viſible appearances is manifeſt, who notwithſtanding their diſtance appear as it were equal in magnitude) they muſt neceſſarily have as powerfull operation upon us, as the Planets have, did they ſympathize with our Earth as the Planets do, whether it be by Magnetiſm, or an active influx in themſelves; yet in regard it often happens, that the Planets are augmented or diminiſhed in their operations by their propinquity to the Fixed Stars, it hath been obſerved that either by their colour or experienced virtues and operations, they have participated with the Planets in ſignification, though more weakly and in ſomewhat a different ſenſe, ſo that by the variety of their influence they are ſaid to be of the nature of ſuch a Planet, and ſometimes of two Planets.

Not onely the difference of the Planets from thoſe Stars called Fixed is to be conſidered, but alſo the difference among themſelves, for according to their various Qualities, they produce various Effects; from whence ſome are termed, Fortunes and Benevolent, others

others Infortunes and Malevolent, and ſome Indifferent.

The Benevolent and Fortunate Planets are ♃ and ♀, and the good Aſpects of the Sun.

The Infortunes and Malevolent are ♄ and ♂, and the bad Aſpects of the Sun.

Thoſe Planets that are of an indifferent nature, are ☿ and the Moon.

And this diverſity of operation proceeds from the agreement or contrariety of nature and quality, to that of our Earth, even as the Vegetables of the Earth do accord with, or are contrary in nature one to the other; and ſo ♄ by reaſon of his exceſs in Cold, and ♂ in reſpect of his exceſs in Heat, are ſaid to be infortunate to us, as exceeding in thoſe principal qualities, ſo that generally they become deſtructive to nature in its actions and paſſions: and hence it is alſo that ♃ and ♀ are ſaid to be benevolent and friendly to our natures, becauſe they ſympathize nearer with the nature of our Earth, and all its productions, not exceeding in any one quality by which nature becomes corrupted and deſtroyed.

☿ and the Moon are ſaid to be indifferent as much for the reaſon aforeſaid, as by reaſon of their affinity to, and frequent variation from other Planets, for as it is the property of ☿ to be ſubject to ſuch mutation in his influence by reaſon of his acceſs to, and coherence with the other Planets by body or Aſpect.

So the Moon by reaſon of her propinquity to the Earth as its proper attendant (reſpecting the ſame for her proper center) doth more eaſily receive impreſſion from, and conveigh the influence of all the other Planets to us, (by which they become more ſignificant and apparent in their operations) though ſhe in reſpect of her own eſſential quality, exceeds our Earth in humidity.

So

So the Sun, as he is the Center (more especially) of the motion of all the Planets, it is manifest that by his good or bad Aspects, he should be either very friendly to Nature in the one, and as prejudicial in the other.

These are some of the several Significations of the Planets as they are simply considered by themselves, but their influences are intended or remitted by their mixtures one with another, as also by their various Positions and Aspects.

As by their Position in Signs in which they are said to have most principal respect, as in their own proper Houses, and also in respect of their propinquity, or oblique and direct positions to Earth, being far more powerfull in influence or operation by so much as their influential beams are directly projected.

The most principal Aspects of the Planets among themselves, are these four, *viz.* Sextile ⚹, Quartile □, Trine △, Opposition ☍.

The ☌ Conjunction, improperly called an Aspect, as it is the corporal union of their Beams, is of most power among other Configurations, and of the infortunate Planets is very malevolent, of the fortunate benevolent, of the fortunes with the infortunes, is good to the bad Planets, but evil to the good; and note that ♄ and ♃ make but 10 Conjunctions in one Trigon, continuing in the same near 200 Years, that is a Conjunction once in 20 Years, and compleats a revolution of all the Trigons once in a little less than 800 Years, which is very observable, there being but seven revolutions compleated since the Creation, after every one of which, something notable has happened in the World.

A plain and easie Table shewing the true Interest due upon any Sum of Money from five Shillings to an Hundred Pounds, for a Year or under, after the rate of Six Pounds in the Hundred.

		1 month.			3 months			6 months			9 months			A Year.		
		sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.	sh.	p.	q.
Shill.	5	0	0	1	0	0	3	0	1	3	0	1	2	0	3	2
	10	0	0	2	0	1	3	0	3	2	0	5	0	0	7	0
	15	0	0	3	0	2	2	0	5	1	0	8	2	0	10	2
Pounds.	1	0	1	0	0	3	2	0	7	0	0	10	2	1	2	1
	2	0	2	1	0	7	0	1	2	1	1	9	1	2	4	2
	3	0	3	2	0	10	2	1	9	1	2	7	3	3	6	3
	4	0	4	3	1	2	1	3	4	2	3	6	3	4	9	0
	5	0	6	0	1	6	0	3	0	0	4	6	0	6	0	0
	6	0	7	0	1	9	2	3	7	0	5	4	2	7	2	1
	7	0	8	1	2	1	0	4	2	1	6	3	1	8	4	2
	8	0	9	2	2	4	2	4	9	1	7	1	3	9	6	3
	9	0	10	3	2	8	1	5	4	2	8	0	3	10	9	0
		po.	sh.	p.	po.	sh.	p.	po.	sh.	p.	po.	sh.	p.	p.	sh.	p.
Tens of Pounds.	10	0	1	0	0	3	0	0	6	0	0	9	0	0	12	0
	20	0	2	0	0	6	0	0	12	0	0	18	0	1	4	0
	30	0	3	0	0	9	0	0	18	0	1	7	0	1	16	0
	40	0	4	0	0	12	0	1	4	0	1	16	0	2	8	0
	50	0	5	0	0	15	0	1	10	0	2	5	0	3	0	0
	60	0	6	0	0	18	0	1	16	0	2	14	0	3	12	0
	70	0	7	0	1	1	0	2	2	0	3	3	0	4	4	0
	80	0	8	0	1	4	0	2	8	0	3	12	0	4	16	0
	90	0	9	0	1	7	0	2	14	0	4	1	0	5	8	0
	100	0	10	0	1	10	0	3	0	0	4	10	0	6	0	0

Find the Principal in the first Column, and in the other you have the Interest due for one, three, six, nine, or twelve months.

Of

Of Weights and Measures.

Of *Troy* Weight.

24 Grains	make	1 Peny w.
20 Peny weig	make	1 Ounce.
12 Ounces	make	1 pou. *Troy*

Apothecaries Weight.

20 Grains	make	1 Scruple.
3 Scruples	make	1 Dram.
8 Drams	make	1 Ounce.
12 Ounces	make	1 Pound.

Of *Averdupois* Weight, a Pound whereof is equal to 14 Ounces, 12 peny weight *Troy*; by which Weight is weighed any thing which beareth the name of Garbel in this kind of weight.

8 Drams	make	an Ounce.
16 Ounces	make	a Pound.

28 Pound	make	1 Quarter.
4 Quarters	make	1 H. or 112
20 Hundreds	make	1 Tun.

Of Liquid Measure.

2 Pints	make	1 Quart.
2 Quarts	make	1 Pottle.
2 Pottles	make	1 Gallon
8 Gallons	make	1 Firkin of Ale, Sope, Herrings.
9 Gallons	make	1 Firkin of Beer.
10 Gall. ½	make	1 Firkin of Salmon or Eels.
2 Firkins	make	1 Kilderkin
2 Kilderkins	make	1 Barrel.
42 Gallons	make	1 Tierce of Wine.
63 Gallons	make	1 Hogshead
2 Hogsheads	make	1 pipe, Butt.

Dry Measure.

2 Gallons	make	1 Peck.
4 Pecks	make	1 Bushel land measure.
5 Pecks	make	1 Bushel wat. measure.
8 Bushels	make	1 Quarter.
4 Quarters	make	1 Chalder.
5 Quarters	make	1 Wey.

Long Measure.

3 Barly Corns	make	1 Inch.
12 Inches	make	1 foot.
3 feet	make	1 Yard.
3 feet 9 Inch.	make	1 Ell.
6 feet	make	1 fathom.
5 yards and ½	make	1 Pole.
40 Poles	make	1 furlong.
8 furlongs	make	1 *Eng.* mile

Land Measure.

1 pole in breadth and 40 in length make a Rood of Land.

4 Roods make an Acre, which contains 160 square pole.

Cloath Measure.

4 Nails	make	1 Quarter.
4 Quarters	make	1 Yard.
5 Quarters	make	1 Ell.
3 Quarters	make	1 Ell *Flemish*

A Table shewing how many Inches in Length makes one Foot of Timber, according to the Compass of any Round Piece of Timber.

The Compass of the Tree in Inches.

Com.	In.	parts.	Com.	In.	parts	Com.	In.	parts
10	217	15	40	13	572	70	4	432
11	179	46	41	12	916	71	4	388
12	150	80	42	12	310	72	4	198
13	128	49	43	11	744	73	4	75
14	110	79	44	11	211	74	3	965
15	94	312	45	10	723	75	3	861
16	84	822	46	10	262	76	3	760
17	75	137	47	9	830	77	3	663
18	67	20	48	9	425	78	3	569
19	60	151	49	9	44	79	3	479
20	54	286	50	8	686	80	3	393
21	49	228	51	8	349	81	3	310
22	44	865	52	8	30	82	3	230
23	40	904	53	7	730	83	3	152
24	37	690	54	7	447	84	3	78
25	34	743	55	7	178	85	3	6
26	32	122	56	6	924	86	2	936
27	29	787	57	6	684	87	2	869
28	27	697	58	6	455	88	2	804
29	25	820	59	6	238	89	2	742
30	24	127	60	6	30	90	2	681
31	22	596	61	5	836	91	2	622
32	21	206	62	5	649	92	2	566
33	19	936	63	5	471	93	2	511
34	18	784	64	5	301	94	2	458
35	17	736	65	5	140	95	2	406
36	16	755	66	4	985	96	2	356
37	15	862	67	4	837	97	2	307
38	15	38	68	4	696	98	2	261
39	14	276	69	4	561	99	2	216
						100	2	171

The use of the Table.

FIrst girt the Piece about, then look the length of that Girt under the title Com. and against it is the length of a Foot solid in Inches and parts of Inches.

Example.

Suppose a piece of Timber be 80 Inches about, then look 80 under the title Com. and against it in the next Column toward the right hand is 3 Inches and 393 decimal parts of an Inch, (that is 393 thousand parts, supposing the Inch to be divided into 1000 parts) for the length of a Foot.

For Square Timber.

Divide always 1728. (the Cubick inches in a foot solid) by the Content at the end, and the Quotient shews the length of a foot solid in Inches.

Example.

Let a piece of Timber be 12 Inches broad and 10 Inches deep at the end, and then the Content will be 120 Inches, which dividing 1728 the Quotient is 14 Inches, and $\frac{48}{120}$ parts for the length of a foot solid.

For Boards.

Divide always 144 (the Inches in a foot square) by the breadth, and the Quotient shews the length of a foot square in Inches.

Example.

If a board be 16 Inches broad, then 144 divided by 16 the Quotient is 9 Inches for the length of a foot according to that breadth.

For Circles.

If the Circumference be given, multiply it by it self, and then by 7, the last product divide by 88, and the Quotient shews the Content: if the Diameter be onely given, multiply it by it self, and then by 11 the last product divide by 14 and the Quotient shews the Content.

A Table of the hour and minute of Sun-rising every second day.

days	Januar. ho.	mi.	Februa. ho.	mi.	March ho.	mi.	April ho.	mi.	May ho.	m.	June ho.	mi.
2	8	4	7	15	6	16	5	14	4	21	3	46
4	8	1	7	11	6	12	5	10	4	17	3	45
6	7	58	7	7	6	8	5	6	4	14	3	44
8	7	56	7	3	6	4	5	2	4	11	3	43
10	7	53	6	57	6	0	4	58	4	7	3	43
12	7	51	6	53	5	56	4	54	4	5	3	43
14	7	48	6	50	5	52	4	50	4	2	3	43
16	7	45	6	46	5	48	4	46	4	0	3	44
18	7	43	6	42	5	44	4	43	3	58	3	45
20	7	40	6	38	5	40	4	39	3	56	3	46
22	7	37	6	34	5	36	4	35	3	54	3	47
24	7	33	6	30	5	32	4	32	3	52	3	48
26	7	29	6	26	5	29	4	29	3	50	3	49
28	7	25	6	22	5	25	4	25	3	48	3	50
30	7	21	0	0	5	21	4	22	3	47	3	52

days	July ho.	mi.	August ho.	mi.	Septem. ho.	mi.	Octob. ho.	mi.	Novē. ho.	m.	Decem. ho.	mi
2	3	54	4	39	5	39	6	41	7	37	8	15
4	3	56	4	43	5	42	6	45	7	40	8	15
6	3	58	4	46	5	46	6	49	7	44	8	16
8	4	0	4	50	5	50	6	52	7	47	8	17
10	4	3	4	54	5	54	6	56	7	51	8	17
12	4	6	4	58	5	58	7	0	7	54	8	17
14	4	8	5	2	6	2	7	4	7	57	8	17
16	4	11	5	6	6	6	7	8	7	59	8	16
18	4	15	5	10	6	11	7	12	8	1	8	15
20	4	18	5	14	6	15	7	15	8	3	8	15
22	4	21	5	18	6	20	7	19	8	5	8	14
24	4	24	5	21	6	24	7	22	8	7	8	12
26	4	27	5	25	6	28	7	25	8	9	8	10
28	4	30	5	29	6	32	7	29	8	11	8	9
30	4	34	5	32	6	36	7	32	8	13	8	7

Seek the day on the side; and right against it, in every moneth, you have the hour and minute of Sun-rising.

Look how many minutes the Sun rises after 3, 4, 5, 6, 7, 8.
So many he sets before 9, 8, 7, 6, 5, 4.

A Table of Annuities and Reversions.

What 1 pound to be paid any number of years hence, under 31, is worth in ready money.				What 1 lb Annuity to continue any time under 31 years is worth in ready money at *6 per cent.*				What 1 pound will amount to at any time under 21 year reckoning Interest upon Interest.			
	sh.	d.	q.	lb.	sh.	d.	q.	lb.	sh.	d.	q.
1	18	10	2	0	18	10	2	1	1	2	2
2	17	9	2	1	16	8	0	1	2	5	2
3	16	9	2	2	13	5	2	1	3	9	3
4	15	10	0	3	9	3	2	1	5	3	0
5	14	11	1	4	4	3	0	1	6	9	0
6	14	1	1	4	18	4	1	1	8	4	2
7	13	3	2	5	11	7	3	1	10	0	3
8	12	6	2	6	4	2	1	1	11	10	2
9	11	10	0	6	16	0	1	1	13	9	2
10	11	2	0	7	7	2	1	1	15	9	3
11	10	6	2	7	17	8	3	1	17	11	2
12	9	11	1	8	7	8	0	2	0	3	0
13	9	4	2	8	17	0	2	2	2	7	3
14	8	10	0	9	5	10	3	2	5	2	2
15	8	4	0	9	14	3	0	2	7	11	1
16	7	10	2	10	2	1	2	2	10	9	2
17	7	5	0	10	9	6	2	2	13	10	2
18	7	0	0	11	16	6	2	3	17	1	0
19	6	7	1	11	3	2	0	3	0	6	0
20	6	2	3	11	9	4	3	3	4	1	3
21	5	10	2	11	15	3	1	3	7	11	3
22	5	6	2	12	0	10	0				
23	5	2	3	12	6	0	3				
24	4	11	1	12	11	0	0				
25	4	7	2	12	15	8	0				
26	4	4	3	13	0	0	3				
27	4	1	3	13	4	2	2				
28	3	11	0	13	8	1	3				
29	3	9	1	13	11	9	2				
30	3	5	3	13	15	3	2				

By this Table you may readily find the increase of any other summ for such a number of years: for if 1 lb come to so much then such suppose 5 lb will come to 5 times as much &c.

The

The use of the Tables.

THe first Table shewing the decrease of one Pound yearly at 6 *per cent.* may be used in buying Reversions, *&c.* As suppose a parcel of Land or House or the like, whose fee simple or real worth is 200^{lb}, and it be Mortgaged or Leased out for 20 years, then what is the Reversion thereof after that 20 years worth in ready money? For Answer, I look against 20 years and find that the Reversion of one pound after 20 years is worth but 6^{sh} 2^{d} 3^{q}, then if 1^{lb} be worth 6^{sh} 2^{d} 3^{q}, 200^{lb} will be worth 200 times as much, which will be 62^{lb} 5^{sh} 10^{d} for the value of the Reversion required.

The second Table may be used in buying of Leases, *&c.* as suppose I am to buy a Lease of 10^{lb} *per annum*, for 21 years, what ready money may I give at the rate of 6^{lb} *per cent. per ann.* for answer I look against 21 years and find that 1^{lb} annuity to continue 21 years is worth in ready money 11^{lb} 15^{sh} 3^{d} 1^{q}, then I say if 1^{lb} annuity for 21 years be worth 11^{lb} 15^{sh} 3^{d} 1^{q}, then 10^{lb} annuity for the same time will be worth 10 times as much, which will be 117^{lb} 12^{sh} 8^{d} 2^{q}, for the value of the Lease required.

The third Table may be used in putting out money for a certain time at 6^{lb} *per cent. per ann.* as suppose 20^{lb} be let out for 7 years, what will it amount to in that time reckoning Interest upon Interest? For Answer I look against 7 years, and find that 1^{lb} will amount to in that time 1^{lb} 10^{sh} 0^{d} 3^{q}, then I say 20^{lb} will amount to 20 times as much, which will be 30^{lb} 1^{sh} 3^{d}.

The use of the following Table is plain and easie, for suppose I am to find *Easter* this present year 1685. then having found the Golden Number 14, and Dominical Letter D at the bottom of the Table, I look under the Dominical Letter D at the top, and right against the Golden Number 14 at the left hand, and in the Common angle of meeting I find *April* 19. for *Easter* Day.

A Table shewing how to find Easter for ever by the help of the Golden Number and Dominical Letter.

G.N	A	B	C	D	E	F	G
i	*Apr.* 9	10	11	12	6	7	8
ii	*Mar.* 26	27	28	29	30	31	*Apr.* 1
iii	*Apr.* 16	17	18	19	20	14	15
iv	*Apr.* 9	3	4	5	6	7	8
v	*Mar.* 26	27	28	29	23	24	25
vi	*Apr.* 16	17	11	12	13	14	15
vii	*Apr.* 2	3	4	5	6	*mar.* 31	*Apr.* 1
viii	*Apr.* 23	24	25	19	20	21	22
ix	*Apr.* 9	10	11	12	13	14	8
x	*Apr.* 2	3	*mar* 28	29	30	31	*Apr.* 1
xi	*Apr.* 16	17	18	19	20	21	22
xii	*Apr.* 9	10	11	5	6	7	8
xiii	*Mar.* 26	27	28	29	30	31	25
xiv	*Apr.* 16	17	18	19	13	14	15
xv	*Apr.* 2	3	4	5	6	7	8
xvi	*Mar.* 26	27	28	22	23	24	25
xvii	*Apr.* 16	10	11	12	13	14	15
xviii	*Apr.* 2	3	4	5	*mar.* 30	31	*Apr.* 1
xix	*Apr.* 23	24	18	19	20	21	22

Sea. of our Lord	1684	1685	1686	1687	1688	1689	1690
G.N.	13	14	15	16	17	18	19
D.Le.	FE	D	C	B	AG	F	E

The

The Names of the principal Fairs in *England*, as they have heretofore been ſet forth by others, and are now Corrected and continued for the common good.

January.

THe 5 day at Hicetford in Lancaſhire, the 6 day at Saliſbury, Tueſday after at Melton-Mowbray, the Thurſday after at Banbury: the third Tueſday in January at Potton: the 25 at Graveſend, Briſtol, Churchinford, Northallerton in Yorkſhire every Wedneſday from Chriſtmas till June.

February.

The 1 day at Bromley in Lancaſhire, the 2 at Reading in Barkſhire, at Maidſton, Bickleſworth, Bicklesfield, Bath, Lyn, Bugworth: the 6 day at Stafford for 6 days: the 14 at Oundle, Feverſham: 24 at Henley upon Thames, Baldock: On Aſhwedneſday at Royſton, Dunſtable, Eaton, Tamworth, Tunbridg, Lichfield, Exeter, Ciceter. The firſt Thurſday in Lent at Banbury: the 26 at Stanford an Horſe Fair.

March.

The 3 day at Bromel-brakes in Norfolk, 4 at Bedford, at Oakham: 12 at Alſome in Norfolk, Sudbury, Wooburn, Stanford, at Wye: 13 at Bodwin in Cornwall: 20 at Durham. Alesbury: Munday before our Lady day at Kendal, at Wisbich. 25 at Huntington, Northampton, Malden, Aſhwel in Hartfordſhire, Newcaſtle, Oney, S. Albans: Midlent Saturday at Saffron-walden: Palmſunday-eve at Wisbich, Worceſter, Pomfret, on Goodfriday at Norwich, the Tueſday before Eaſter at Potton.

April.

Eaſter Munday at Oney in Bedfordſhire, Gainsborough. Eaſter Tueſday at Daintry in Northamptonſh. Godmanchester, Schole in Norfolk, S. Edmunds-bury. On Wedneſday at Wellingborough in Northamptonſh. On Friday

In the ſame week at Darby. On Saturday at Bickleſworth: 2 day at Hitchin, at Rochford, Northfleet: 5 at Wallingford: 7 at Derby, 9 at Billingſworth, Bickleſworth: the 22 at Stabford, 23 at Ipſwich, Harbin in Norfolk, Northampton, Sapſar in Hartfordſhire, Charing, Hinningham, Tamworth, Bury in Lancaſhire. St Pombs in Cornwal, Ampthill, Chicheſter, Engfield, Gilford, Biſhops-Hatfield: the 25 at Buckingham, at Bourn in Lincolnſ. at Colebrook, Dunmow in Eſſex, Darby, Oakham in Rutlandſhire: the 29 at Tenderden in Kent, Cleet. 30 at Beverly a week together.

May.

The 1 day at Swaffam, Haveril in Eſſex, Laytonbuzzard in Huntingtonſh. Rippon in Yorkſ. Reading, Maidſtone, Chelmford, Leiceſter, Litchfield, Lexfield in Suffolk, Stow, Stanſted, Tuxford in the Clay, the 3 day at Elſtow in Bedfordſh, Noneaton in Warwickſ. Thetford in Norfolk, Waltham Abby, Hinningham, Rochdale, *Bramyard*, the 6 at Almeſbury, at Aſhford, 7 at Newton in Lancaſhire, *Beverly*, Oxford. *Bath*: the 8 at Maidſtone: the 19 at Rocheſter, Dunſtable, Magfield in Suffolk. On Rogation Munday at Reach. On Aſcenſion day at Thaxted, *Beverly*, Rippon, Sudminſter, *Biſhopſtratford*, *S.* Neots, Wickham in Lancaſhire, Middle-wich in Cheſhire, Chappel-Frith in Darbiſh. On Whitſun-even at Skipton in Craven. On Whitſun-Munday at S. Ives, Rygate in Surry, *Bickleſworth*, Bradford, Agmunſham in Buckinghamſh. On Whitſun-Tueſday at Newmarket. On Wedneſday at Royſton. Thurſday at Owndle in Northamptonſ. 26 at Lenham, 29 at Crainbrook.

June.

Trinity-even at Rowel, Kendal. On Corpus Chriſti day at Banbury, *Biſhopſtratford*, S. Neots, Coventry, Newbury. The 3 at Alesbury: 9 at Maidſtone. 11 at Breme in Norfolk, *Bardfield* in Eſſex, 17 at Hadſtock, 23 at S. Albans, Deerham in Norfolk, Shrewsbury, 24 at Halſon in Suffolk, *Barnwel* by Cambridge, Bedford, Colcheſter, Hartford,

Hartford, Leiceſter, Rumford, Reading, Windſor, Halliſax, York, Beverly, Haſlingden, 26 at Briſtol, Darby. 27 at Burton on Trent, Folſtone. 28 at S. Pombs in Cornw, 29 at Peterborough, Aſhwel, Sudbury, Stebbing in Eſſex. Benington in Hartfordſhire.

July.

The firſt Tueſday at Potton. The 1, 2, 3 days at Congleſtone in Cheſhire, 7 at Royſton, Burntwood. The Munday after at Fodringham, at Canterbury: the 11 at Partney, 17 at Stevenage: 20 at Uxbridge, Coolidge, Woodſtock: the 22 at Ickleton, Bickleſworth, Norwich, Colcheſter, Newark upon Trent; 25 at Audley-end by Walden, Reading, Baldock, Darby, Dover, Erith, Ipſwich, Stamford.

Auguſt.

The firſt day at Bedford, S. Neots, Dunſtable, Feverſham, Wisbich, Bickleſworth, Thaxted: the 6 at Peterborough: the 10 at Blackmore, Harply in Norfolk, S. Ives, Bedford, Banbury, Farnham, Brainford, Owndle: the 15 at Cambridge, Huntington, Dunmow, Luton, Northampton: the 24 at London, Sudbury, Norwich, Oxford, Northallerton, Dover, Beggers-buſh, Burton. the 28 at Aſhford, Daintry: the 29 at Halſon in Suffolk, Harlow-Buſh in Eſſex, Watford.

September.

The firſt day at S. Giles in the Buſh. On Thurſday and Friday before the 8 day at Sandback in Cheſhire. 7, 8, 9, 10 at Woodbury-hill in Dorſetſhire, 7 at Ware. 8 at Huntington, Bury in Lancaſhire, Partney, Wakefield, Northampton, Sturbridge fair begins: the 11 at Wolfpit in Suff. 14 at Rippon, Waltham-Abby, Cheſterfield in Darbiſhire, Richmond: the 21 at Marlborough, Bedford, Baldock, S Edmundsbury, Holden in Holderneſs, Braintry, Brackly-Maiden, Malden, Mildnal: the 29 at S. Ives, Baſingſtoke, Marketdeeping, Shelford, in Bedfordſh. Biſhopſtratford, Malden, Stow in Lincolnſh. S. Albans, Canterbury, Leiceſter, Newbury, Weſtcheſter, Weymer for 7 days: Thurſday after at Banbury.

October.

October.

The 1 day at Salisbury, the 6 at Havent in Hampſh. Maidſtone, Coolidge, Gayworth by Lyn. S. Faiths by Norwich, the 8 at *Biſhopſtratford*, Harborough, 9 Gainsborough, the 13 at Windſor, Colcheſter, Graveſend, Hitchin, Royſton: the Tueſday before S. Luke at Potton: 18 at Ely, Biſhop Hatfield, Barnet, Banbury, Thirſt, Burton on Trent, Wellinborough: the 21 at Saffron Walden, Coventry: the 23 at Bicklelworth, 28 at Newmarket, Hartford, Oxford, Diſs, Wakefield, Stamford, Richdale in Lancaſhire.

November.

The 1 day at Chelmsford, 2 at Epping, Kingſton on Thames, Padamhaſſon in Suffolk, 6 at Newportpond, Bedford, Hartford, 11 at Lodden in Norfolk, Lenton in Nottinghamſhire, Hempton, Fockingham Bridgeſtock, Marlborough: the 17 at Spalding in Lincolnſh. Lincoln, Harlow, Hide, Northampton: the 19 at Horſham in Kent: the 20 at S. Edmundsbury, Ingerſton in Eſſex, Heath. the 23 at Sandwich, the 30 at Baldock. Bareford, Kolingborough, Maidenhead, Warrington, Rocheſter, Wakefield, York.

December.

The firſt day at Tutbury: the 5 at Pluckley: the 9 at S. Neots, at Woodſtock, Exeter, Spalding, Norwich in Cheſhire, Seven-oak in Kent, Arundel, Grantham: the 7 at Sandhurſt, the 8 at Northampton, Clitheral in Lancaſhire, Huntington, Leiceſter, at Malpas in Cheſhire: the 29 at Canterbury, Salisbury.

THere is lately publiſhed *Theſaurus Linguæ Sanctæ Reſeratus*, &c. being a Concordantial *Hebrew Lexicon*, or *Dictionary*; in which all the *Hebrew Lexicons* are ſuccinctly comprehended, and the whole *Hebrew Concordance* of every Word of the *Hebrew Bible* grammatically reſolved, &c.

28 OC 62

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